

AIRCRAFT QUESTIONNAIRE

Name _____ Grade _____ CAPSN _____ Unit _____ Date _____
Check Pilot _____ Grade _____ CAPSN _____ Score _____ Type/Model Acft _____

Complete this open book questionnaire using the *Flight Manual/Pilot's Operating Handbook*. If a question or part of a question is not applicable, write in NA. The check pilot will review and grade the questionnaire. Minimum passing score is 80%. The completed questionnaire will be filed in the pilot's flight records.

1. Approved fuel grades and colors are: _____
2. Location/capacity of each fuel tank is: _____
3. Total usable fuel under all flight conditions is _____ gallons.
4. Endurance at 75% power, 7,500-foot MSL, with a 45-minute reserve is _____ hours.
5. What make and grade oil is used? Winter _____ Summer _____
6. Oil capacity is _____ quarts. Minimum oil quantity for takeoff is _____ quarts.
7. Minimum oil pressure is _____ psi. Maximum oil pressure is _____ psi.
8. Maximum oil temperature is _____ degrees (F or C) _____
9. Magnetos are checked at _____ RPM. RPM drop should not exceed _____ RPM on either magneto or _____ RPM differential between magnetos.
10. Maximum RPM and MP for takeoff are _____ and _____ in/lig.
11. Maximum gross takeoff weight is _____ pounds. Empty weight is _____ pounds.
12. Useful load is _____ pounds. Maximum landing weight is _____ pounds.
13. Baggage compartment locations/weights are: _____
 - a. Give the IAS at maximum gross weight for: _____
 - b. Va (maneuvering speed) _____
 - c. Vso (stall, landing config, power off) _____
 - d. Vs I (stall, cruise config, power off) _____
 - e. Vy (best rate of climb, sea level) _____
 - f. Vx (best angle of climb, sea level) _____
 - g. Vmc (minimum control speed - multi-engine only) _____
 - h. Best glide speed _____
14. Give the immediate action/memory items for:
 - a. Engine failure immediately after takeoff _____
 - b. Fire during cranking and engine fails to start: _____
 - c. Engine fire in flight: _____
 - d. Electrical fire in flight: _____
15. Normal takeoff flap setting is _____, short field takeoff setting is _____ and soft field takeoff flap setting is _____.
16. Maximum demonstrated takeoff/landing crosswind component is _____ knots.
17. Given.- PA = 4,000 feet; Temp = 86° F; Runway 27; Wind 320° at 14 knots; runway is paved, level, and aircraft is at maximum takeoff weight.
Find: Total takeoff distance to clear a 50-foot obstacle _____
18. Given.- PA = 6,000 feet; Temp = 68° F; wind calm; runway is paved, level, and dry; aircraft is at maximum landing weight.
Find: Total landing distance to clear a 50-foot obstacle _____
19. Landing runway 22; wind 190° at 22 gusting to 30 knots. Will the maximum demonstrated crosswind component for this aircraft be exceeded? _____